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Cognitive styles of tribal and non-tribal Children

P. Das

Comprise style is conceptualised as individual differences in preferred (or habitual) wave of processing information for the solution of per-'consust and intellectual tasks. Among the cognitive studes identified to date, the fieldrelationship herwiter one and social groups with denendance-independence dimension has been regard to cognitive style tasks. the most extensively enudied and has had the widest applications to educational problems (Witkin, Dylor, Faterson, Goodenough and Karp. 1962: Witkin Lawis Herteman, Manhouse, Meissner and Wapper, 1954; Wirkin, 1976).

There are several studies (Fair 1969; Frederick, 1967; Greenfield; 1970, Hunt and Randhwa. 1973 Dosh, 1982) which have examined the relationships between cognitive style and concept learning, problem solving achievement and established that the difference in performance is function of cognitive sayle. This relationship is of particular concern to teachers because of their interest in having students fetra concepts. solve repblems rather than faces alone. Since connitive styles tend to be stable greatime (Witkin, Goodenough and Karp, 1987) it becomes necessary to identify the cognitive style of children of various socio-cultural background quite early in development and develop diversified teaching approaches for facilitating optimum

The purpose of the present study is to examine the cognitive style of tribel and nontribal primary School children.

Hypotheses 1. There will be signs cant differences among children varying in age (or class) for each of the measures or cognitive style.

2. There will be significant differences among tribal and non-tribal children for each of the measures of coonitive stylt. 3. There will be significant incoractive

Subjects The present soudy involved one hundred and fifty

have of classes between 1 and 5 of Orista. Roys for each class were divided into tribal and nontribal groups, Non-tribal group has been further divided into High S.E.S. and Low S.E.S. groups. Each sub-cultural group under each age span consist of 25 boys giving rise to 75 under 7 years and 75 above 10 years of age.

Tools The following tests were administered to all children as measures or field dependence-Indepundence (Witkin et al. 1962) and reflection impulsivity (Kegen et al 1954) which are considered as important dimensions of cognitive strie.

Children Embedded Figures Test (CEFT) This sest initially developed by Goodsnough and Eagle (1963) and subsequently developed by Kern and Konstadt consists of drawings of familier objects, so drawn as to embed in the simple form to Yest and House. The test consists of a series of complex figures 11 of which (T.-...T...) have the simple Tent floures embedded in them and 14 of which (H,-Hu) have the simple. House figures embedded in

them. The child was asked to find the hidden Tent and House by comparing with the simple cut-out form of Tent and House supplied to him. Responses were scored 1 or 0 according to correct or incorrect. The soal score was the number of items answered correctly, the

Matching Familiar Figure Test (MFFT)

maximum being 15.

This tost was developed by Kagin. Rosman, nation because of the nature of the task and Day, Albert and Phillips (1964) as the massure the processes involved in it. Kagan (1964) in all the insulativity. Which is another all-leady indicated that bow imputishings (officient disease) of cognitive style, it from your associated with greater success in consists of 12 cets of of occurs, in this tast School.

subjects are required to select from a number of options the ligures that is identicate to a given control of the control of t

Results and Discussion

The means and standard deviations of the rests are presented in Table-1 for tribial and non-tribial groups, in a role to examine the significance of differential performance of tribal and non-tribial children on each of the measures of cognitive style a $2 \, ({\rm Age}) \times 3 \, ({\rm Social} \ groups)$ Records markets of virtuace was commented and is oliver, in Table-2.

Toble-1

Means (M) and Standard deviations (S. D.) of Cognitive style test acotes for classes between I

Test		Class	T	ribal		Non-tribal				
					Low	545	High	SES		
			M	SD	M	\$D	M	SD		
(1)		(2)	(3)	(4)	(6)	(6)	(7)	(8)		
CEFT		1.	704	301	1012	2:49	1308	4 01		
		5	13'04	3 68	14:08	272	1884	217		
MFFT (Response time)	100	1	17336	6218	138:04	77.96	182 60	98:31		
		. 6	31376	14393	309-20	116'41	224 00	111-63		
MFFT (Errors)		1	21 32	878	22 60	5.92	14:12	5:43		
		5	10'28	3:87	11.95	477	820	3:39		

Table-2

Summary of two-way Analysis of variance for classes between 1 and 5 (Age) and tribal and non-tribal shifden (Soviet amount)

Test	F—ratio						
	Age	Social groups	Age × Social groups				
CEFT	108-576**	47-265** /	1.490+				
MFFT (response time)	46'952**	1.832"	5-189**				
MFFT (errors)	99'811"	16-030**	3187*				

"p<0.05 "p<0.01 +Not significan

It is quite clear from Table-1 that on all cognitive style measures higher age-group children performed beter than lower age-group children irrespective of social groups. Further it is also appeared that, the performance of tribal and low SES non-tribal children on CEFT and MFFT are very much similar at both age levels.

In the field independence dimension, class 5 children are superior to class 1 children as tervaled from the mean scores of CEFT-Although the order of performance follows a decreasing pattern from high SES non-tribal through low SES non-tribal to tribal children than exist significant differences among there nimps as far their complitive styles or processing modes are concurred. The analysis of variance of CFFT further indicates that main offect for and and ancial group are significant. The non-significant age and Social group interection indicates that the relative performance of encial groups (tribat and non-tribal) does not after as a function of age or Schooling. This finding has cross-cultural suppet from the studies of Kagan and Klein (1973), Kaul (1981). Vigitind (1973)

In order to volidate the findings of CEFT, MEET was used to asses' impulsive and reflective nature of children. These abilities are usually considered as 'important' dimensions of cognitive style. As expected, the mean scores of MFFY revealed that the response latency of older children was more than Younger children. High SES non-tribal children under seven took more time as compared to low SES non-tribol and tribal children. But in case of children above 10 it was found that, high SES non-tribal children took less time as compared to low SES non-tribal and tribal children. The main effect for age is significant which suggests that younger children are more impulsive than older childen. The main effect for Societ groups in not significant. However, the interaction between age and Social groups is significant which supposts that the relative performance of social groups is related to age or schooling.

Further, the magnitude of errors on MFFT for blad and non-tribul children. Dres striking feature of the choose seat is that low SES mon-tribul children bare committed more error than tribul children have committed more error than tribul children at both rigs lavels. This was due to the fact that the response latency

of tribal children was more than their low SEs more that locations. There is a clear cut independent effect at both ope and social rought prices and the researches to any that rounger children are more impative in character or committee of the researches to any that rounger children are more impative in character and committee more error in committee to committee the committee of the committee of the part of the committee of the part of the part of the findings of Das (1985). Milholatione (1974) who obtained similar developmental treats using CETF and HTT respectivity. When children is a search of the part of part of the part of the part of p

The above Findings dearly demonstrate than tribal children and low SES non-tribal children are less field independent/reflective than high SES non-tribal children. Kegan (1966), Miller and Mumbaker (1967) also reported that, reflective pendency is related to social class, ment, Lack of reflective tendency of socially dis-advantaged children is well related to their failure experiences in accdemic pulsuits. Their ability in complex leafning situations is creatly retarded. Therefore, it can be stated that reflectivity is a mister of age progression as well as adaptation so the immediate environment. Since tribal children and low SES nontribal children remain in a poor socio-cultural environment their response size forms to be more impulsive. This impulsive or finisdependent character of disadvantaged children is one of the major courses of their near travelers. and achievement. Learning is definitely not a simple aspociation of information or facts but the otranisation of learning morerials and its way of resempation are quite important. Thereform it is quite assential for the rechors to develop appropriate learning materials or tooks and present in a proper sequence keeping in view the style of cognitive functioning of children. In other words, the style of teaching should be matched with the style of learning so that children who are incapable of self instruction due to their ecological masons derive maximum benefits. The studies on compensatory education programme (Jensen, 1969) reported various remedial approaches to reduce the deficits and gaps. The paetern drill approach (Bereiter and Engelman, 1966), early stimulation strategies (Kagrin, 1975) and the enrichment programme" (Klaus and Gray, 1968

have wider implications in teaching learning)

process. The processing style is more important

and should be surrused from the bilginning. The longitudinal study of Spicker Modges, Me-Cardiess (1997) made a handware in emphasizing the processes espocially cognitive, precepted and linguistic of socially fire advantaged children The stransite territory, and the stransite within of the spicker of the stransite territory of the spicker of the stransite tool, cognitive and spicker of the stransite of the confidency sterritory of educational issues. It accordingly sterritor to find the abstraction of the accordingly sterritor to the accordingly sterritor to the accordingly sterritor to the accordingly sterritor to the according to the accordingly sterritor to the according to the accordingly sterritor to the according to the accordingly sterritor to the according to the the according to the the according to the accordi educations this benegate of cognitive style in quantities and work on filled dependencies independence in particular, which at the moment appears to have clearest emplications for classroom teaching—learning problems. The findings of present investigation corn up new awareness and competencies for conducting control of the control of the control of members of the control of the control of the members of the control of development.

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THOKRAIN-

An Indigenous lighter used by the tribals of Similipal, (Mayurbhani)

R. D. Girach Z. A. Ali, Amir Abbas

Introduction Similar hills gover about 50 per cent of the

forest eva of Metrubhanj district, it is the home of many rubes. This like Bathout, Rol, Ho and others live in Sientiford hills. They are still secluded from civilisation and malinshin their traditional hintings, they depend upon aurounding platful for their various requirements. Their life is closely interveyor with forests, many amounting their bathill to the various requirements and their limits of their contractions of their contrac

During authors ethnobotanical tour to the mea in February-March 1985, it was observed that tribels in some of the villages (Sunksaire, Kumari) still use trafficional indigenous methods for producing fire.

In this communication, the traditional method of preparation of lighter; iss parts and the process of lighting files are described for ethno-botanical record. Information is alto given on some of the plants used by the tribals to produce fire.

Indigenous Lighter

Bamboos (Gramines) are of great importance to the indigenous people of Oriess. Bamboo provides raw material for building bouses. Isabing nots and meny houghold articles (N. Pataulk and Das Pataulk 1982). Culm of Bamboo are used for various purposes by the mibels.

The use of bamboo culm as one of the raw materials for making indigenous lighter is not reported so far from Oriesa.

In Similipal hills of Orissa, tribals use bamboo culm, specially of the genus Dendrocalemus as the raw material for indigenous lighter,

referred to in Similipal hills as "Thokrain".

Previous references to the use of plants by the tribuls to produce fire are reported by Spream setal (1991) and Patolik and Das

Patnsik (1982).
Several informants belonging to tribal community were interviewed concerning the method of preparation and use of lighter in Sanksvitos. Kammi and grupular villages of Similipat. Probles provided an excellent source of information and further demonstrated the process of producing

Preparation

Bamboo culma (not further identified) are selected on the basis of their length and diameter. The culms 10–15 cm. long, having intermode in botween with climater about 25–35 cm., thickness of 2 cm., is considered suitable sum material. Intermode provides a natival partition between two hollow ends of a culm. Culm is scrapped are intermode and at the ends, with Kei (Ronle) to make it smooth and handy. (Fig. 4, 8 B.).

Tusser—An indigenous plant, locally known as Asan, (Terminally tomerclose), a tree belonging to family combestiones, commonly met with in

Similized hills, is one of the authable hostes for Yusser (selk worm puppe). The empty shelfs are collected from the host plant and used as fid to cover the hollow ends of culm. The shell is cut transversely into two depail halves. Each shall of an empty shell is scrupped in such a way shall of an empty shell is scrupped in such a way.

that it first lightly on the cerd of the culm.

Threed—It is obtained from the woody climber. A multipurpose plant for the ribbot locally known as said (Phanes integritable) belonging to consulprincewas abundantly growing in the area.

Upper half of the tusser shell is threaded at the top with a knot and upper end of the thread is tied in the hook made into the piece of fron (a knife-tike strutum).

Cotton—The fibre from the fruits of Simulia (Bombar cribe), a tree with thorny stem and twige having scuriet large flowers belonging to the family Bombaconele, frequently seek in the area is collected in March-April and preserved to seek as corted in the surpression to the uncertainty of the seek as the seek as control in the uncertainty.

cuies

PAint—Three to four pieces of Flint stone, locally known as Chakmak, and collected from the river banks and spowd in the lower half of the culm. Both the ends of culm are tightly litted with juster halves. (Fig. A. B. B.)

The nyical fighter "Relativit" will only measure 55-48 cm. in Fergina and 45 cm. in dismeter which may really be certiful in a poolar. Tursie which may really be certiful in a poolar. Tursie cover list at or earlingsish fire paracites of contraia well as to earlingsish fire paracites of contraia. Well and since the certiful in a contral or (Small') and filled tonces are implicated regularly. The this purpose this colored simplicity of the first significant size of the significant to the first use. Dry coston is said to be good for smooth functioning of the lighter.

Coston obtained from Kappa (Gossyplum sp.) may also be used if simuli cotton is not available. One of the informant said that Simuli coston is better from Kappa corone for the currocks.

Process of Lighting a Fire

The method is based on the Principle of procussion. In this method only a piece of flint and piece of ions are required. Use of thirt score to light a five is true old practice which is still prevalent in some of the tribal villages of Similipal bills.

Process of lighting a fire by Tholizain was demonstrated by one of the tribal inhabitants of Sankraira village.

A place of First Is taken from the lower has for the color. Byother has also placed in the defragories of Similar like separated in the derivation of Similar like separate. The secondary behalf to be the first behalf to be the secondary behalf to be the secondary

It may easily be curried in a pociate or hand. (Fig. C). It was quite cominent to see the men figik watking with "Thokinin" hanging in right hand and belig propriet from Dispings (Tobacco) crushed hawse wreghed in sall lerves pixed on the set. It is also used in the house to produce the for cooking purpose, and to produce fire at night amount the house to keep of twick and anish. In addition to the method of producing live

the lids are covered again,

by percusion. It was observed by the authors that file melting through used fiction was also done in other strice. (Chatia, Nohra), in this method, two incess of dry legis, (Bark removed) 20–25 cm. long of Morings oblitics locally flamous as Salanjamin, a lightwooded tree of tamily Moringueces are selected for the purposi, The tree is commonly found resude, hobbitotions, it is grown for its flowers, fluit (Drum-Schick) and loves. They are used as vegetable after

Dry sings are made into wooden cylinders in one cylinder, circular grooves are made with a small elik at a stant in it, approximately 2 cm, upen from each other. The lower and of other cylinder is sharpened in such a way to fit in the circular groove (Hearth) of the first cylinder.

The cylinder with citalir places is kept on a bench, drilling with the second cylinder products friction, as a sealt said of the islant beach and the first products friction, as a sealt said of the islant beacome but and falls through the sits on the dry leaf in the protocol figuring is. Such a few producing methods is however time conspersing unifiedly to be durable and ribble possing through the place for your with term for immediate use.

Because of the light and soft twige they easily used by the tribals for producing fire through break and may be unavailable in certain forest friction are Mycteriches arbortristis L. (Godkhuareas of human activity. However this may be dika, Cartan oblangifolius (Maha Sindhu). considered as temporary method. Other plants Premise Intifatie and Adina (Cordifolia Mundi).

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Explanation of figures.

1981.

Fig. A. (a) Thokrain-Indigenous lighter

(b) Various components of thekisin 1. Tusser shell (Halves), 2. Bamboo culm. 3. Nodel region, 4. Thread. 5. Iron piece,

6. Flint stone, 7. Simuli cotton,

Fig. B. Friction method of lighting

I. Winden cylinder with gircular grooves

II. Cylinder with Isharp and, III. Sand, IV. Dried loaf, V. Slit, VI. Hearth (Groove), VII. Direction of dritting.

Fig. C. Tribal men holding indigenous lighter.

Study of Women Development in a changing economy with special reference to tribal women in Rajasthan

Illa Chakravarti

Introduction

Women as human resource factor account for development of a acciety and this has been given emphasis in recent years, which is reflected in the programmes for women development and the intressing literature on women develorment studies. Women is a group is disadvantaged due to socio-sconomic condition, as a result, women are often depind or not able to eval angul opportunities in improving their lot regarding skill knowledge and do not have more time and energy for achieving these, Over and above, thry face discrimination and segregation in regard to job and pay. But all the women can not be put in the same category. Women belonging to weaker section are worse off. Again, in this croup the problem of tribal woman needs special attention as the tribals are a particularly disadvantaged community whose culture and Efc.wore marked by homogenuity parties, has disintegrated after they came in contact of the non-tribula. Tribal economy is operating at a very low level and majority of tribal areas remain isolated and backward. 5 Tribal areas are characterised by socio-aconomic emileitation of nontribals but the tribels still maintain their culture and heritage which influence their activities. It has been observed that among more motives and incentives which stimulate 'pre-litorate' men to work in some colluses, the religion is prominent. Thus the passecral nepole of Africa rear cattle in order to sacrifice some of share to God while the Rhils of India orgetise the system of cultivation transmitted to them as they believe by their God Raje Pantha,2 Possibly this fact somewhat explains the slow adoption of New Technology by the tribals in Rajosthan with res-

peet to agriculture and it is connected with cultural and social pattern; economic consdecations are not the only motiveting factor.

In India development efforts are being made since independence but in this process 'develonment activities have not led to agrive involvement of women'.4 Althrugh social change in the value system is necessary for improving the status of women yet the a tivities relating women develonment are to be appalerated. Studies available on tribal women in Reliasthan deal with social aspect and dearth of literature on economic aspect related to work participation, nature of jobs done and their future prospects has led to prosent study. An engine's on work nattern has been attempted on the basis of larest available Census of 1981 and the programmes drawn in Seventh Five Year Plan (1985-90), in porticular, have been dicussed here. In this paper an attempt has been made to study the position of tribal women with spenial reference to Bhil women in Udalpur, Rajasthon State in india and the development efforts that are being initiated for their economic upliffment. Bosic Festures

The question of economic upliffment has to be seen in a particular framework in which the tribal women operate. The basic features are primarily as follows:

A. A typical tribal economy is not a market concerny or in other words they are subsidiance; Economics, wherever they are producing greater part is Constanted by themselves. In Tribal Sub-Plan (TSP) area of Rajesthon, 45-49 per cent of the farmers have less than 1 hostese of land as their holding. They produce only subsistence goods so their level of income is low. Provision of off-season employment leve become utmost importance to ward off hunger in these

B. Tribula do not work only for economic motives: they value other things more in life such as, desire for sustemence, conferency trigition, recognition for work well done by the

group. C. Labour division, base on sex differences is present every where but reduced to a minimum in the food authoring stage. In a simple and pure tribe society, wife participates on equal footing with her husband in the struggle of life and is also equal neerly in scatus. But this position changes when the tribal comes in contact with non-tribals and/or food producing stage such as agriculturist and pastoral. In case of Bhil, changes came in their cultural and social life after their contact with non-Bhile, especially Rejputs. Cortain rights practised by the flaguets, c. c. during a merriage, were adopted by the Bhits; the use of 'purdsh' is another custom which the Bhills adopted. They also learnt about settled and improved terming methods and girdually gave up their 'slash and burn' oultivation. At the level of ideas, contepts like pollution, untouthability, subsedination-superordination ofere, and its major rules, came within the knowledge of the Bhile. Reparding the shil women the division of labour butween the males and females have tallen very heavily on that of woman," A Shill woman of Rajastran works in home as well as in the field with her husband. She works as labour in the field. construction works and supplements the lacome of the family by working as a casual labour during off season and also participates in agricultural operations in their fields, Parents demand bride price or 'dapa' at the time of marriage of the girl and this may be due to the fact that a Bhill daughter starts sharing economic burden from a very early age and as such is considered

D. The principle of descent whether partitional or motificial has nothing to do directly with the position of women. The Bhat have a partitional scorety and as such the first principle and the major and the principle and the major and the principle and the princip

orisings of these does not warned their seasonals? So principly helds women are billioused to have more freedom and latitude in incre-ensual validation, they are office, victims of decortion and thrift present seasonal to the seasonal three decortions and thrift present seasonal three decortions and thrift present seasonal three decortions and thrift present seasonal three decortions and three decortions and three decortions are decortions are decortions are decortions and three decortions are decortions and three decortions are decortions and three decortions are decortions are decortions and three decortions are decortions are decortions and three decortions are decortions are decortions are decortions and three decortions are decortions

Work Pattern and Literacy of Tribal women . As separate data are not available exclusively for Bhil women, an overview of tribal women in Udalipur district regarding work pattern, literacy see and sex-ratio is beought out in the light of

1981 Consus data

In Udalper district the sex-ratio of tribal population is more balanced in rural areas than the urban eress. In rural areas 50 1 per cunt of total appointion is male and 49-9 per cont is female whereas in urban areas 55'5 per cent of the population is male and 44.5 per cent is female. We have not come across any captanation of this descrepancy of the sox-ratio between urben and rural areas. But in this context one would better take into consideration the facts that migration in urben eross for jobs are mostly among males leaving bahind females in rural areas, may be in urban areas, females are subject to more advance conditions in job market and they may find urban life more terle and feet as compared to russi life. Any way all those need emperical verification which is outside the scope of the present paper.

Regarding literacy tribal women are for behind not only of tribal males but also far behind female literacy cate of the State. The literacy rate of tribal women is 5.3 per cent in rural areas whereas in urban areas the same is 11.96 per cent (Table (1). The occupational pattern reflects the work pottern of tribal women of Udalpur district: the work implies only paid work? Main workers are those who worked for the major part of the year white marginal workers are those who worked any time of the year for loss then 183 days in a year. As main workers women constitute only 13'4 per cent of total main workers in rural areas; in urban areas the percentage is higher, i. e., 181 whereas male workers constitute 867 per cent in rural areas and 81'2 per cent in urban areas respectively. Considuring different types of activities as 'main workers' mostly tribal women are engrosed as agricultural labourer constituting 41-8 per cent of total agricultural labourers and under the category of 'other workers' famales constitute 226 per cent of total rural workers. But it is interesting that female workers are overwhelmingly large that is 93'6 per cent as marginal workers in rural areas of Udalpur. In other words most of the tribal women have to take up some work for a period which is less than six months to supplement the income of the family. Belatively less females are engaged in Household Industry. Manufacturing. Processing, Here it may be noted that, as given in Tribal development in 7th Five-Year Plan, for Tribal Development in Rejesthen,4 that tribals in Balasthan do on have any tradition of rural crafts.

As non-weakers (seer activity which was not offered for sale) believe trust women constitutes 80 ft per cent of forcil nuril worsh-ness. Thus the study of own, parties reveals fethly, bear inclinity of science, and secretary the sale of the science and secondly, they are diving less shilled point than the misses which reflected is the nature of job they are undersaking and, briefly, although any of job they are undersaking and, briefly, although any producting or entiring searching for defination consumption was not considered as work, so they do extigated as non-worship as sometime.

The basic approach in VII Plan regarding

Processing of forest produce and herbal plants.

mineral development and self employment can

be the only worthwhile activities in industrial

Tribal Women in VII Plan

sector

women development programmes is 'to inculcate confidence among women and bring about on awareness of their own potential development and also of their right and privileges, as the long term objective is to raise their economic and social status (P. 324, VII Five Year Plan, Vol.-II, 1985-90)1. The programmes for Schoduled Tribe worten in the VII. Plan is to remove backwardness of tribal women and for that, stress on economic development, schemes have been given and while executing the programmes, it has to be ensured that tribal women are assisted under income generating programmes of Integrated Rural Development Programme (IRDP) and Special Central Assistance (SCA) and the voluntary agencies of women organisations. Moreover, tribal women representatives are to

be included in programme implementation

As rogardis women devolopment programme for the devolopment of tribal women were than our in the nearlier plans. Some Departments undersook working year of the devolopment of tribal women were worken as a pact of their, souther work, in the special emphasis and on outlay under Spotial complains and on outlay under Spotial complains and on outlay under Spotial Control Assistance of Rs 1000 likehin has been provided for the various spirities of Women Development in Thole Siss-Plan (TSP) area. Variety to proper special control of the Control Contr

As agriculture would coatinue to be the main occupation for tribals, emphasia will be now on to produce " low value and high value crows". seticulture is one such item. A pilet project was storted in TSP area during 1982-83 for 3 years to bonefit 300 tribal women. Under this scheme, 188 women were benefited during VI Plan period and this will continue during 1985-86. A scheme for training of nurses and compouridors is in progress in Bansware in TSP and 30 mibal girls are to be trained in this schoms. Rural women are benefited through the programmes of Khadi and Villago Industries. A sum of Rs. 160 02 lights has been provided during VII Plan Programme in TSP eten for Khadi and Village Industries. As the literacy rate of tribol women is very low, a sum of Rs. 42:50 lakhs has been earmerked in the VII Plan for increasing literacy among scheduled tribe girle.

Keeping in view the plight of women a protion of fits 0.75 felsh has been made for the destitute homes at Banswan and Dangarput for socially discarded women. An UNICEF assisted programms in Bansware distinct is being implammated, the objective of the programma is to increase their income and to pravide supporting services needs for income promoting participate.

Thus a beginning has been made in the VII Plan to uplift the economic condition of the tribul women through advantion, skill formation, botter health, etc. But taking oducation itself, tabel glaik/women will be very allow to come out of their shelf, as we have found earlier that although as 'main workers' femalies constitute, although as 'main workers' femalies constitute, only 13 per ones of scall workers, yet in resultance had not the burden of work is on resultance had not the burden of work is on second or so the second of the second of decision in our older to pursuate the quadrate of the females, who see morthy makes, to send extensive for control and workers. It is livinged to a vocation which care give them seems carriers and present woman table one any logs which is resultable to her, at a costet that it is resultable to her, at a costet that it is also consent condition.

Looking into the VII Plan programmes for TSP area for women, it is obvious that effort is being made to being them in the main creams of the society, although a provision has been made to maintain tribal culture. But contain with non-tribal bias changed their ideas in many

respects as noted earlier as a result of which the builden on women has grown more as male member finds it darogatory to perform many acrivities which they consider now typically women's responsibility; earlier the society was more equal. In this process of development the emphasis would not only be on Preservation of tribal are and culture' but also on the good aspects of tribal life, and in particular, sousi status of women. Som junds have been earmarked for Prostructio of tribal art and culture in the VII Plan for tribals. How for these are going to help in improving the status of tribal women is questionable. By oneyl creating more job apportunities for tribal women the overall burden on women may be heavyer which is in no way going to increase the we which the women. More emphasis needs to be place of on presurvation of equal status of tribal women

Table 1

which is a special.

Literacy and work pattern of Scheduled Tribes, both male and female, in Udal pur district, excluding municipal areas.

-				Baoul	ation of Sc	hoduled Tr	ibes		
				Botal			Urb	on	
SI. No		No. of p	tage	Male percen- tage	Female per cen- tage	No. of persons	tage percen-	Male percen- tage	Female percen- tage
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(a)
1	Population	792,922		501	49-9	16,234		55-5	446
2		45,382	5-7	947	5.3	2 983	184	881	11-9
3	Main workers	240,302	30-3	86-7	133	6.171	38-0	81-9	181
4	Cultivators	192,851	24'3	91-2	8-8	957	5-9	898	101
5	Agri. Labour	22,588	2-3	58-2	41.8	640	3.9	70-9	29-1
8	Household industry.	371	0.05	71.2	28-8	32	019	687	31-3
7	Other workers	24,512	31	773	227	4,642	27-9	81.9	181
8	Marginal workers		134	6-4	93-6	597	37	139.	861
9	Non-workers	446,033	8 562	40-9	591	9,466	58-3	409	591

Source—Compiled from Census of India 1981, Series I, Part II, Government of India, Primary
Consus Absence, Scheduled Tribe.

Feature of the primitive tribal life and these values need to be sevired with proper depiction and demoneration. The tributs are hardy people and they have the expacity to face intural hazards and hardships. Their slowness to take up the new technologies may be diet to the fact that apart from their triglious beliefs and motives, these new methods do not suif take way of life in the seven of the control of the seven of the seven methods do not suif take way of life.

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Attitude of tribal farmers towards credit

K. Rout and

Indian farmers have yet to develop a Scientific perception about the availability and utilization of credit. Sometimes even though credit is available, farmers are not in a position to utilise them. Hence a change in payal ology of farmers about credit utilization is yet to be created which will lead to higher rate of production and economic growth.

reason why easy availability of credit at reasonable retes of Interest is important, for the growth of scientific agriculture in those areas. · Rect that need consideration is that pibal

Analytical study reveals that the main cause of low yield is non-availability of finance for forming. So it is necessary to ensure satisfactory errangements of credit for egriculture.

" In gribal communities of India the farmers are

pool enough not to take any risk of investment

on modern agricultural inputs. This is the very

development process has not yet built am mechanism for the maintenance of its momentum. Most of the tribal communities have not we understood the implications of sottled farming

structured schedule.

Keeping this in view, a study was undertaken with the following objectives: 1. To assess the attitude and polooption of tribal farmers towards credit.

2. To ideatify the bottlenocks that are affecting the credit seaking and represent habit or

Out of the 13 districts of Orisse, Keonihar was selected as it is prodominantly. Inhabited by tribel people. Five blocks from this district were sclosted and from these five blocks ten grampanchevers were choosen. Selection of blocks and pancheyers were done on random sampling

technique. The study encompasses two hundred respondents distributed in swenty villages at the rate of ten respondents from each. The informations were recorded with the help of a RESULTS AND DISCUSSION TABLE 1

Attitude towards credit		
Spredients	M. S.	Rin
1. Seeking Credit does not contribute for the Development of Land	300	V
2. It is wise to obtain credit for improvement in production	3.70	IV
3. Farmer cannot progress if he resorts to credit	272	VII
4. More credit means more investment in production	3-80	10
5. Only lender will be benefited	2:70	VIII
6. Credit obtained for agricultural purpose can be spent for other	385	
purposes. 7. Farmer who does not take credit remains to be traditional	3:37	V
8. Farmers have to take credit if they want to develop	392	1

A protect of Table 1 reveals the tribal unmore perceive credit in order of importance as follows. Farmes require credit for this development credit control to registrative can as well assent for any other purpose and more credit mass man production. The last perceived been seen only legiders will be benefited when money is becreased from them, farmes can not progress if they resort to credit and taking credit does not controllable for development of land.

Findings at a glance reveal that credit is perceived more favourable by tribal farmers, ideal aspects of credit were highly valued as against unfavourable aspects.

TABLE 2

Perception about credit		
Statements	M. S.	Rank
1. Loan is a burden	1.97	VI
2. Loan creates future financial complications	2-12	IV
3. It decreases Social Prestige	2.02	V
4. It helps in meeting unnecessary expenditure	2.02	٧
5. Loan is a burden for future generation	2:30	III
6. Loan stands on the way of soil dependency	 2:32	- 11
To be investigate with for consumers	2:57	1

Results presented in yeaks perception of respondents towards credit from various angles. Most of the tribal farmer feet that loan involves risk for requirement (257), stands on the wip of self deportment (232), a bundle for future generation (230) and create future financial complications (212) in order of rank. The least runhad item observed to be losts is a bundle and it decreases socially presign.

The result depicts that among the regotive values of credit, involvement of risk for repayment as a important one. This is logical because most of the tribal farmers are poor, traditional in nature and their risk bearing operatify is less.

Barriers in obtaining credit

Vary often planners and administrators wonder that in spite of availability of all sorts of credit fabilities, many of the farmers do not make use of them. An othersoft has been made to determine the barriers in othersing oracles or follows:

TABLE 3

		Barriers in ab	taining ofted	4			
		Itatement			Frequency	Percent	999
	Sophisticated process				150	76	
	Difficulty in repsyment				174	87	
	Not timely available				184	. 92	
	Being a defaulter				116	58	
	Securing credit is expensive				138	68	
	Undue delay				152	. 76	
7	Lack of security				70	36	
	No means to secure credit				24	12	
	High rate of interest				50	25	
	Malprottice adopted by lendin	a significa			. 50	28	

Requits revisal that untimely availability of credit is the most important obstacle in obtaining loan in tribal areas. Major obstacles found in order are, undue delay, difficulty in repayment, sophistic ried orcoss, expressive in exelian credit and detailers of regardment.

Defaultation is a problem in Indian credit programme. Many bibel formers fall to repay back a credit in time. Accomplishes of credit year efter year leads to legal complicacy and farmers do not get approximaty to take credit again.

CONCLUSION

Efforts were reads to determine the actitude of tribals towards credit, their psychological perception and the reasons of being defaulted. The findings of study reveal that:

- Tribals view credit as very essential for development of farm.
 - Tribal farmers are with the view that the credit obtained for one purpose can be sport for other purposes and higher credit leads to higher investment and production.
 - Tribol tarmers purceive credit as risk for repayment, obstacle to self dependency and burden for future generation.
- They express that loan is not available to shem at the time of need as it is a sophisticated process and because of difficulty in repairment.

Changing ecosystem of the Tribal with special reference to Deforestation and Forest Policy

Manoranjan Acharya

the study of ecology deals with the biodata and its environment and the ecceystem which is the largest functional unit in ecology. The term Ecosystem was formelly proposed by Tansley, the plant ecologist, in 1935 as a general term for both the BIOME (the whole nompley of organisms-both animals and plants-naturally living together as a sociological unit) and its Habitat. E. P. Odum, an ecologist defines the ecosystem as the basic functional unit of organisms and their environment, interacting with each other and within their own components. But, a more practical view of the ecosystem was suggested. (especially at lower levels in micro-scale) by Fosberg in 1963 as a functioning interacting system composed of one or more organisms and their effective environmore both physical and biological. Fosberg, further developed his concept of ecosystem by his statements: the description of an ecosystem may include its spatial relations: inventories of its physical features, its hobits and ecological niches, its organisms and its basic resputces of matter and energy: its natteres of circulation of matter and energy: the nature of its income (linguit) of motter and energy and the behaviour or transf of its enteney level". Robinson has defined ecosystem, "which clearly ombraces and involves very complex

and the behaviour or trend of its enterpy level; .

Robinson has defined ecosystem, "which clearly embraces and involves very complex relationships both of magno and micro-scales, it can think of simply as a batenced complex of living and non-living matter in a given unit of

From a structural view point, an ecosystem comprises 4 constituents such as; ablotic substances, producers, consumers, decomposers.

Forest is a living community of plants and animals. It is a product of the factors of colorily file climits, and, togoparty and bodic biduporis. The standing forests are the result of biduporis. The standing forests are the result of livings of the standing forests are the result of the present term and see batter solved to present term and see batter solved to present term and see batter solved only of the present forests have attained their present forest, and period the control of humans beings. Mes cannot create a forest once it is destroyed forests are the diopersols of bodierous of colorests or the indepresso of colorests.

definite growth parties. The growth is focust to finite size with a locary in interaction. So every twe foreign we adding something is time of goods. The evolution of the evolu

As forests constitute a living body is has

When the question of forestry, or forest management arises, we very often ignore or simply keep sided the age long practices of forest management of the tribals. Tribal communities have their own customary laws for

management of forest and forest resources and they are not recicless predicces of forest resources like their mon tribal counterperts. They used to regard forest as their own property and hence naver exploit it to its devastating end.

In tribal societies a human group generally adopts a natural species of plant or unitsol as its polen and foators fixeal actions forward structure. Totom symbolies collective sentiment of the cross that has adopted it and this sentiment of the cross that has adopted it and this sentiment of the cross that has adopted to a fixed the sentiment of the cross-sentiment of the cross-sentiment of the collective sentiment of the cross-sentiment of the collection of

Dushbeiss (1915) and Radclitte Brown (1952) saw toornism as a mechanism by which a system of social solicituris is established briveses man and nature. It is a way of bringing the natural world within the social and mostic code of man. Totersism is not only a mode of symbolicing social groups but also a way of donomiticaling nature. It is a proto type of donomiticaling nature. It is a proto type of estimates.

The tribus of Orissa worship forests, hills, water-resources with the idea that these are controlled by the presiding delities of the said phenomena. They believe that unless they satisfy these spirit they will cause heards and tenor in their day to day asistence.

There is a proposite international between the control and others brought age. They follow the control of the c

Tribals have their own taxonomies of flora and funn. They are familier with and solve a borough knowl-tee about the familier with and solve a borough knowl-tee about the familier and decay of plant and an application of consignment and consignment is not better mide of management is not declinated for the personation of valuable species of plants. When this shifting confrience can be found to the consignment of the consistency of the co

patch of hill slop for cultivation invariably spare the control plants like Sal (Shoros Robusts), Passal (Phecaspa Morsegulan), Teek (Tool one Grandis), Herida (Terminella Chebule), Bahada (terminella Babica), Shibhu (Delbengia Latikila), Margo (Mangfath India), Tendal (Terminella Babica),

Indica), and jack tree, etc.

Sal occupies a special position in the culture

Sid occupies a spectar jointion in the Culture of all the bibber of Inition I than 10 to 1

Cixewise Mehua is also regarded as a Folly plant by a number of Dravidian tribus of Orision, namely Good Koodh, Olice and Farana, Gudeba and Kova. It is also treated as holly plant by Bordo, Solor and Diddy were bailed this Southern Mundari tribes of Orisia treat this tree as solved plant.

"off-orest provides the pribate tond, byverages, oil, seed, medicine, timber, great, footder, local, not many off-orest, footder, many off-orest, footder, f

Forest occesses has been changed to a considerable extent making the life of the focest dwelling people and the fate of the mankind mistrable due to the following factors.

Changing Forest Ecosystem (Deforestation)
According to Harmon (1962) forest is "1 stand
of 1969, growing flows long-this with associated
plants of various kinds". So, the phenomenon of
a chinging forest may be explained in terms of
deforestation i.e. the loss of plant growth due to
various restorms which brings about a change in
its ecosystem as a whole. Some of the
significant possible create or as bellow:

1. Shifting cultivation

It is practised in some form or other in many places of the tropical countries of the world where the main habitation of the people are in the forest or hills. It is a cultivation by rotation in the hill alones and hill toos by the method of slash and burn tillage.

Shifting cultivation may be defined as an acricultural system in which forests are cleared by cutting and subsequent burning and are cropped discontinuously. A large number of tribes practise shifting cultivation in various parts in India for their livelihood. Among them are most of the hill tribes in Assum, experially Gurn Naga and Khasi, Mikir in Madhya Pradesh, Baiga and Korwes in Biher, Kharia, Paharia and Todas in Tamil Nedu, Kondha, Gadabas, Sagra, Paroja,

Koya, Bhuiyan, Kols and Juangs in Orissa. Due to shifting cultivation, the forest is not only thinned up, but also the forest land is converted into open fields in course of time.

devoid of forest growth. 2. Cutting of timbers for economic benefits

At present, many forests are found to be balded due to the frequent cutting of timbers for selling in the markey. It gives economic benefits to a small assument of the noculation while affecting the interest of the year majority. Basides, the Government have also been collection tireable revenue through suction sale of resurved forests, thus encouraging the auction hebters to exploit the forest resources to the maximum, Very often under the grab of the legitimacy of these suction courtbons take paper to indiscriminate and illegal folling of trees,

3. Due to natural calamity

Leatly, natural galamities like floods, syciones. est, are also responsible for deforespection. Very often cyclones result in the brecking of tall plants. thus deteriorating the plant growth. Besides, excessive solar radiation and rainfall also check

plant growth by destructing thick vegetation. In sum, these are the various scents responsible for the change of the forest ecosystem and thus give a new dimension to the problems arising our

of the changing ecosystem. Forest engaystem for conturies had been intricably bound up with the life of the tribal communities. As focust dwaller they are the raid custodian of foosat. With the introduction

from the forest and necessary Government Machinery was developed for scientific manager ment of forest so that national income can be Scientific management of forest envisages proper assessment of the annual increment of the forest so that this can be harvested annually

increased

of forest policies, tribals have been estranged

keeping the growing stick intect. It is not possible to remove the annual increment from each and every plant. The annual increment in a body, of forest is estimated scientifically and their quantity is removed from the said body of forest either by selective felling or by clear felling. This is otherwise known as scientific commercial forestry in natural forest.

In scientific commercial forestry, there is conciderable interference with the natural ecological process. In scientific management the forests which are always in minority are frequired against the majority, hance man's afform, are to keep the natural ecological progression in check.

Such interference is more consounced where entire possible of forest are close felled. It is less where selective fellings are carried out. But with the present system of forest marriage: ment the forest eminitation privilege conscribe goes to the non-tribal people to whom the total vegetation is of little interest and they exploit the forest to the last and of their privilege. At the same time they do not forget to fulfil their vessed interess in manipulating the Government Machinery by which the objectives of scientific management is being hampered.

There is another aspect of scientific

commercial forestry, which also has vest influence on forest ecosystem. Only a few species out of the yest multitude of plant community in a natural forest have been found to be more valuable than the others. The forester's effort is to grow these tress in a large volume and as fast as possible. He often finds it much elizier to achieve this by removing the existing forest growth and plant those species

Tribal people tiving in particular euggraphical region develop a deep sense of attachment with certain flots of their locality. The trees like Sal. Mohus. Kendu etc. have considerable importance to their sponomy. They satisfy a large range of their delly sends from these trees, when a new stories is introduced removing the indigenous flora, tribal people react to it. It has been reported in Singhbhum district when Bihar State Forest Development Corporation began to replace the Sal Mohus and other trees with teek in miscel'aneous forest in which tribals claim total right, the tribals look towards it with suspicion. This action of the Corporation was strongly opposed and counter acted with symbolically cutting down the teak septing in the nearby nurstry. They feel that teak plantation by-pass their economy as it generates wealth and incomo elsowhere, except the wages they get from the Corporation. In some cases these trees encroaching their farm land. according to them not a blade of grass grows under a teak plant.

Effects of the changing forest eco-system on population :

on population:

The impact of the changing forest eco-system on population may be discussed under the following heads:—

1. Effects on Boil it discesses the fertility of soil by removing the lays and on account of soil other sections that the soil on account of soil other sections control uses of section and the section of provided uses of seeks plaints. They are also dependent on non-green glosses for cheben discess. These growing plaints mostly have as dependent on non-green glosses for cheben consecution to the complete section of provided to the section of the section removed to the section of the section section of the section of provided to the section of section of the section section

the desired level

II. Effects on Human Population.
(a) It affects incine—The thick vegetation serves as a Vaulent for incoming redistion and value and value of the control of

(b) it charses servers sail existion—Due to heavy sain, excess water flows on the surface of the sail and violent blowing winds remove the particles from the sail. Loss of fettile top sail is called sail existing.

(c) It make a deficiency to substitute securement—the people in the toost seeks modifimentation that Evelificate through collection of maintain that Evelificate through collection of wide alreads. Beautiful through collection of lake, wax, resin. efc. see also collected by them are defined that the second of the collection of an a result forest based food-swift cannot be as a result forest based food-swift cannot be collected threshoot. Thus, the people see forced to lead a list of goovery and retirey. This slowary collection of the collection of the among those people.

(d) R cases freely fisads—Thick plantning server as a check against the right speed of seaser flow during floods. Defoustation, on the centery silvers the water to come down with much speed and velocity during seinfall, threshy causing floods in rivers, which again bring insumountable miseries to the riversin population.

(e) If causes actings of reservoire—During floods, water brings down with it heavy quanties of ecoded soil and stones. Those are deposited on the brids of reservoires and gradually those bods get sitted up, thereby the irrigation potentials of reservoire is greatly reduced, thus bringing an obverse offset on the economic leves of the people.

4f) R causes emigration- Deforestation compole the copulation depending on forest based food-souff to move out of their native places in search of food. The forest eco-system largely fulfills the primery moeds of the forest dwelling people, which cannot be possible due to the destruction of the fortet growth. They are thrown out of their staditional occupation of collecting forest produce; consuming a part of it by themselves and selling the remaining part in the open market for other daily necessities. This regults in emigration of a large chunk of the population to urban and semi-upon areas seeking employment to eke out a living. As a result of this, their traditional cultural unity in the group 160 gets disintegrated and the ego old strong social thread binding them together gets snapped.

(g) It decreases asstratic basety—Every tuman along in pirchologically inclined bowed tuman along in pirchologically inclined bowed to the pirch along the pirch along the pirch results in the loss of the natural beauty of the forest by making it devoid of its operants and deposing its form and storm, Threety man statistical seatheric quest amidst the groonaries of the forest in defeated.

The Similipal Hill Area Development Corporstion has been instituted an integrated represent for the development of the tribals as wall as the forest. The objectives of the corporation may be the economic rehabilization of the tribes, introduction of horticulture, soil conservation and making national park a tourist resort it is observed that the forest contractors are saking leases from the corporation in the name of local tribes who have got preference in getting land for cultivation. Indistriminate buildozing of land by contractors in the vicinity of the hill, causing considerable damage to the forest. After making the forest law cultivable they have started possto cultivation. The are using fertilisers and posticides so extensively that wild animals are reported to be dying after taking water from the veems. If this is the state of affair, the ecological problems will be a cause against the tribes as well as to

Another very significant problem reless due to the syndrotics of "Wed List" Prevention. Act. More of the brief work control of the problem of Dissa have commonled to the brief which has been as the problem of the pro

the forest ecosystem.

For various reasons forests are fast shrinking wheeses the population deposition of torest in feet growing. As a result of which present on forest and forest produce is mountainly with the present spished of management, consciously or usconsciously more in extracted from the freet thin what it can yield. This leads to replic damage in forest on system. It is quite spectriment to measure the socio-

political and socio-commenic conditions of the proping against the book dispos of exhanging forcest occurrent sisce these are the description of execution of excession of the condesive station of societies, and the condition of the condition of the social rest work, it is continuing the social rest work, it is continuing the social rest work are could group in distinguishing the customs some in familiary social groups is distinguished due to flagorithms of the customs some in familiary with the least of the continuing and the least of the secondary media. Due to differentation, various

debition afters his not excito, flooks, rerectioned which play brings in its rest on tocoly the deplation of the forest based food and but not unlocate effect in demands for the control of the forest based for many, this reduces their standard of firsto. Long social and control on many of the long social and control on many of the long social and control on many of the long social and control on the long social production of the long social production of the many control of the long social production of the many control of the long social production of the many control of the long social production of the many control of the long social production of the social production of the long social production of the long

In sum, deformistation leads to a total change in the social, economic and cultural life of the secole and forces then to lead a life of poverty and misury. So the remodal missures in the lines suggested below should be taken to half the process of deforestation.

Suggested remedial measures

From the above discussions it will be sonthat the changing forest con system coundays as discussion is sof to do immense days as discussed in sof to do immense damage to smithful at whole. Genter damages are settl alead if it is not halted. The following are the few suggested remedial sections:

(1) Deforestation is legally casted due to legalificient availability of ferenced in villages. Village forest should be developed on Gorvetment lands in villages to cater to the florecod needs of the people. Quick growing stotics should be planted to give quick results under the social forestry scheme.

(2) From fewesty stoud be directored over the hands of individual lammes on that they may hands of middled lammes on that they may handso meeting their flowwood requirements, and to supplie fine wood in the market. Government should recoverage the primers of form forestry by granting washing if recoverary, so into besides maintaining ecological belience, it could become switable for commercial encorpties.

(3) Our mational policy to cover 333 per a. cort of the land base with forest growth should be atticity implemented. Since the present or civilization in the second of th

cope with the work load, visible commercial undertaking many be set up for plantation purposes.

(4) It is garseally seem that every year closes of seekings are planted; but no evaluation is made as to how many of them actually servive. As experience shows, most of these do not survive. Close follow up action after planting operation to causic maximum survivel oil these scalings should be taken.

(6) The village community should be closely associated with malintenience of village focusts by epocinting their own weeks and ward staff. Some shorely may be given to them as incentive. This will refuse Consemental expenditure in the material stage number of breat guisds, features, etc., who are quite involved to present purchasing marie forces in the face of conserver-sealing marie forces in the face of conserver-sealing

(6) A system of awards right from the Grama Panchayar lavel up to the national level may be introduced to as to encourage the village community for recent up-keep of their village forests.

nitr for proper up-keep of their village forests.

(7) Research should be used to find out an alternative cheoper source of construction majerials in place of wood so that pressure on timber "application from the forest may be

reduced to a considerable extent.

(8) Adequate togistative and administrative measures should be under taken: for protection

1. Tansley, A. G.

of wild life.

(9) At the block level a separate Estension Officer on fureity should be repointed to be in charge of creating a consolidation amongst the people abough, extremal contenthods about the proprie abough extremal contenthods about the collegical button. He could risk be in charge of extremal collegical button and the collegical button.

(10) The anxiety expressed by the present Central Government for maintaining the octsivem by way of opening a separate Debartment of Screetly and Wild Life Conservation should be taken as a one by the Sate Government who should also open similar separate department on their respective forets.

(11) Lest but not the least, a national movement should be undersiden by the people, different voluntary consistence and political parties for ensering the preservation of the fosset on system ont only in the national intreess alone, but also in the intrees of mankind as a whole.

(12) The policy of conservation and management of forcet was colored one up indepenment of policy of colored conservation. Both the policy of and development and forest advelopment should be implemented in such assess of the forcet should not be a very the feature of the forcer should not be hampired at the cost of the laster or size hampired at the cost of the laster or size

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Tribal Development Programmes in Phulbani, Orissa: A Review

S. N. Tripathy

The backwardness of Orissa is characterisa-t by low income levels, higher dependence of population on poorly developed agriculture. larger proportion of Scheduled Tribes and Scheduled Castes population, lack of urbanisation and inadequate infrastructure. The tribal population constitute nearly 23 ner cent of the steel population of the State. One of the most backward districts of Oriosa is Phulbani with 39 per cent of tribel population. The majority of them belong to the Khonds who wask as labourer(1). Abject poyerty and inequality in the distribution of wealth and income are deep rooted in the tribal district of Phulbeni. In the Pre-independence era she policy of isolation and apathy of the Brigishers. caused great hardships to the tribals. In fact they were exploited by the Zamindars, landlords moneylanders and contractors(2).

Tribal Sub-Plan-After independence, the

Government took various measures to aliminate the socia-economic explaination of the tribals. Steps were also taken to amulicase their condition by combeting the problems of govern malnutrition, ill-treatment by suitable legislative measures and planned economic development. The new approach to tribal development was evolved during the Fifth Five-Year Plan period. with focus on development of tribals, the new strategy adopted was the properties of Sub-Plan for tribal areas with more than 50 per cene tribal concentration. The main thrust of tribal Sub-Plan (Otherwise known as Integrated Tribal Development Programme) is to develop infrastructura like communication, education, mini-impation and income generation of tribal families living below the poverty line. The prime aim of Tribel Development Programme is to raise the economic standard of tribals by providing them the basic mainimum requirements. On the basis of this concept, 19 integrated Tribal Development Programme areas were identified in the State.

The sub-plan strategy not only alms at bridging the gap of development between sub-plan areas and other areas but also achievement of the objective of amproving the qualities of life of the strate().

In the district Findbani, there are has recepting this Development Apprices Spotishence, Ballguda ITDA covers 9 Blocks or Bislocks of Bislocks of Pullation ITDA covers 9 Blocks or Bislocks of Received and Pullation ITDA covers 10 Bislocks of Received ItDA covers 10 Bislocks or ITDA covers 1

(a) Agriculture

About 80 pin core of the proche depond spon appointment in this circles. The cubivable area of this clinicist. The cubivable area of this clinicist is 2.37 lists became our of this clinicist is 2.37 lists became our districts. The waters of high, medium and low lands is 14.22 lists became, or 600 lists became and 2.27 lists became are supposed to the contract of the supposed lists became, or 600 lists became are supposed lists. The contract lists became on the supposed lists became on the supposed lists became on the supposed lists became to popularize the supposed lists became to popularize the supposed lists became to popularize the supposed lists.

of improved seeds, free distribution of seed minikits has been taken as a strategy for agricultural development, Besides, extension work is done to motivate the farmers to divert high marginal lands from paddy to other crops to derive higher income. During 1984-85 an area of 1.638 hoctares of land has been diverted from paddy to oil seeds and pulses. During the year 1385-86 an area of 75.166 hectares has been brought under pulses and 56,828 hoctares under oil seeds as part of the national objectives of increasing production of

pulses and oil seeds. (4)

(b) Animal husbandry The performance under crimal husbander covers assistance to tribals in rearing milehcastle, opening poultry and gostery units, provision of health covers to animals etc. This programme has a special significance for the weekest sections of the community comprising the landless and marginal formers. In order to uplift the standard of living of the poor tribals, this programme distributes the milch animals poultry units, gostery units at 50 per cent subside to the tribals. There are about 100 contres, 25 votednary dispensaries functioning in the district.

(e) Irrigation Irrigation plays a crucial role in increasing the food production, bringing more area under sulfivation and in raising the level of income and employment The district of Boudh-Khapdmals has no major irrigation project. Hardly 13 per cent of the cultivated area is under irrigation as against the State average of 26 per cent. There is only one medium irrigation project which irrigates about 49,000 scres in Kharif and 5,000 acres in Rabi in Boudh and Harabhanga Blocks. (5) A medium irrigation project known as Bandspipli irrigation Project is under progress in Kotgarh Block 34 lift irrigition points are in operation in this district with an ayacut area of 2,940 bectares aprending over four blocks, namely, Kontamal, Boudh, Harebhenga and Tumuriba dh. The slow progress of the lift, in: gardon programme in Phulbeni is due to the fact that the ground water resources are limited. Energisation of dug-wells has not succeeded due to limited progress in rural electrification in the district.

Soil Conservation

Soil and water conservation programmes are of paramount significance in view of undulated and hilly terrains of the district. During the Sixth plan period. 735 076 hectares of lands were

covered under land development programme. Under Cashew plansation 1,291 hectares, Signi plantation 40 hectares, coffee clantation 113 hectures were covered under soil conservation programme. (6)

(a) Horticulture

Horticulture has a special place in the tribal development programme. Because of soil erosion the tree cover is test disappearing. An extensive programme of Horticulture is ideally suitable to the needs and habits of the tribals with congenial climatic condition for plantation works. Palmsipsa cultivation is very profitable and suitable to the climatic situation of the district which can be general in marginal land. The Orissa University of Agriculture and Technology has been assigned with the task for taking up palmarosa cultivation in 8 hectares. During the Year 1985-86, mixed orchard plantation works have been undertaken covering 512 beneficiaries of E. R. R. P. and L.R. D. P. in 1,024 acres of lands. (7)

(f) Supply of Drinking water

Out of 4,659 villages and hamlets of the district, 1,239 have been identified as problem villages in respect of drinking water-supply. By she end of Sixth Plan period 900 villages were fully covered by providing tube wells and 167 villages were partly covered leaving 172 identified villages wet to be covered. During the said period, 2,216 tube wells have been installed. (8) Education is the key to tribal development. Education is not only an input for economic

development but is assential for providing inner strength to the community in order to meet the new challenges. The district Phulbani has about 27 per core of literacy so against the State average of 342 per cent. During Sixth Plan period 3:26 lakh boys and 1:60 lakh girls in the age group of 6 to 14 have been enrolled in Primary and Middle Schools. During the said period, 34,762 adults, 26,440 males and 8,322 females have been made liserate through 1.895 centres opened. For alround development of Scheduled Caste and Scheduled Tribe population (which constitutes 18-67 per cent and 39-18

residential and non-residential. (h) Forestry

24

(g) Education

Harison & Tribol Welfare Department has esseplished 21 institutions including both Forest area powers 52-90 per cent of the prographical area of the district. But because of indiscriminate falling of trees and Pode

per cent of the total population respectively) the

cultivation practised by the tribals there is a considerable deforestation. Emphasis is laid by Government an afforestation programme and accordingly Government have instructed to ear-mark 20 per cent of N.R.E.P. and R.L.E.G.P.

grant for this purpose. Afforestation programme is being taken up in order to maintain ecological balance and economically help the nibal people who depend upon forest collection for their livelihood along with generating employment opportunities. The agro-climatic condition of the district is concenial for rubber plantation and therefore, during the Year 1984-85. 2 herteres of area have been povered by rubber electation on experimental basis. By the said period, 2,952 hectares have been covered under

(i) Co-operation

To provide a package of services under one toot to the tribal L. A. M. P. Co-goerative Societies are playing a commendable role in Phythesi.

The district has 146,750 agricultural families out of which 122,250 families including 27,345 Scheduled Caste families and 51,453 Scheduled Tribe families have been brought under the co-operative fold. During the period 1981 to 1985. Contractive Societies have financed Be 914:17 lakbe under crop loans (9).

(i) Communication

The district locks adequate communication facilities. The hilly terrain which is cris-conspare by numerous hill-streams make many pockets intotessible. The district has a total langth of 7.190 Kms. of surfaced roads out of which only one-terch is metalic. Out of 4,397 inhabited villages 987 are linked by all weather roads. (10) This is the only district in the State which has

no railway fine and tecently survey of new rall-line connecting Khurte Road to Bolangin which will pass through the district has been taken up. This railway line when completed.

will meet a long felt need of the people and act as a catalyst for development of this under

A necessal of the study brings into light that despite tribal development plans, the advantages of class have not narrolated to me tribal noon and weaker sections of the community. Under clan actumes, the Government of Orissa had allotted Rs. 4.391 01 takhs in the district during 1974-75 to 1984-85. It comes to only 29 per pent of the total State's allocations of plan resources which is the lowest place in the State and therefore, resulted in widespread poverty.

It is therefore, suggested that credit and marketing facilities should be streamlined in order to provide consumption-cum-production credit and to provide support price for tribal produce. The co-onerarive arracture is to be designed to provide integrated credit and other package services to the tribals.

Universities of elementary education has to be ensured through providing a package of services and innovacion in organisation, institu-

Lack of adequate transport facilities has been the chief obstacle for the rapid economic development of the district. Hence, infrastructure development should support specific economic activisies like all-weather links to market ceating rural electrification beloing develop lift impation potential and household and village industries.

Indeed, to make the tribals lead a better life and thereby, to enter into the main-stream, a fresh look as the wihal cooblems and a new strategy for their development is inevisable

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